SWP Weekly Water Quality Summary

May 26 to June 1, 2010

Electrical Conductivity (EC): Concentrations increased at Harvey O. Banks Pumping Plant (HBP) and Vallecitos, but decreased at Check 29, Check 41 and Barker Slough from May 26 to June 1, 2010. Concentrations ranged from 294 to 520 µS/cm (176 to 312 mg/L), below the Article 19 Monthly Average Objective of 733 µS/cm (440 mg/L). As of June 1, 2010, the lowest concentration of 371 µS/cm (223 mg/L) occurred at HBP, while the highest concentration of 475 µS/cm (285 mg/L) occurred at Check 29. Concentrations at HBP increased from 294 µS/cm to 371 µS/cm (176 to 223 mg/L) as of June 1, 2010.

Bromide*: Concentrations exceeded the California Bay-Delta Authority Objective of 0.05 mg/L at all locations. Concentrations ranged from 0.09 to 0.25 mg/L. As of June 1, Vallecitos had the lowest concentration of 0.13 mg/L, while the highest concentration of 0.22 mg/L occurred at Check 29. The average daily bromide concentration at HBP was 0.11 mg/L as of June 1, 2010.

* Bromide concentrations are calculated values using linear regression equations using EC concentrations and are not as accurate as bromide concentrations from laboratory analysis.

Turbidity: Turbidity levels decreased at all locations from May 26 to June 1, 2010. Turbidity levels ranged from 6.0 NTU to 54.5 NTU. As of June 1, 2010, the lowest level of 6.0 NTU occurred at Check 41, while the highest level of 46.5 NTU occurred at Barker Slough. Turbidity levels at HBP decreased from 17.1 NTU to 10.9 NTU as of June 1, 2010.

Dissolved Organic Carbon (DOC): Concentrations increased from 2.3 mg/L to 3.3 mg/L at HBP and from 2.7 mg/L to 2.8 mg/L at Edmonston, but decreased at Check 13 from 3.7 mg/L to 2.8 mg/L as of June 1, 2010.

Taste and Odor Compounds: As of May 27, 2010, MIB and geosmin concentrations in the SWP remain low, ranging from non-detect to 4 ng/L at Clifton Court Inlet, HBP, O'Neill Outlet, Del Valle Check 7, Del Valle Conservation Outlet, Check 41, Check 66, Lake Castaic, Lake Perris, and Silverwood Lake.

Ground water pump-ins to the California Aqueduct from May 26 to June 1, 2010 totaled 12,396 AF. The breakdown of the total volume was:

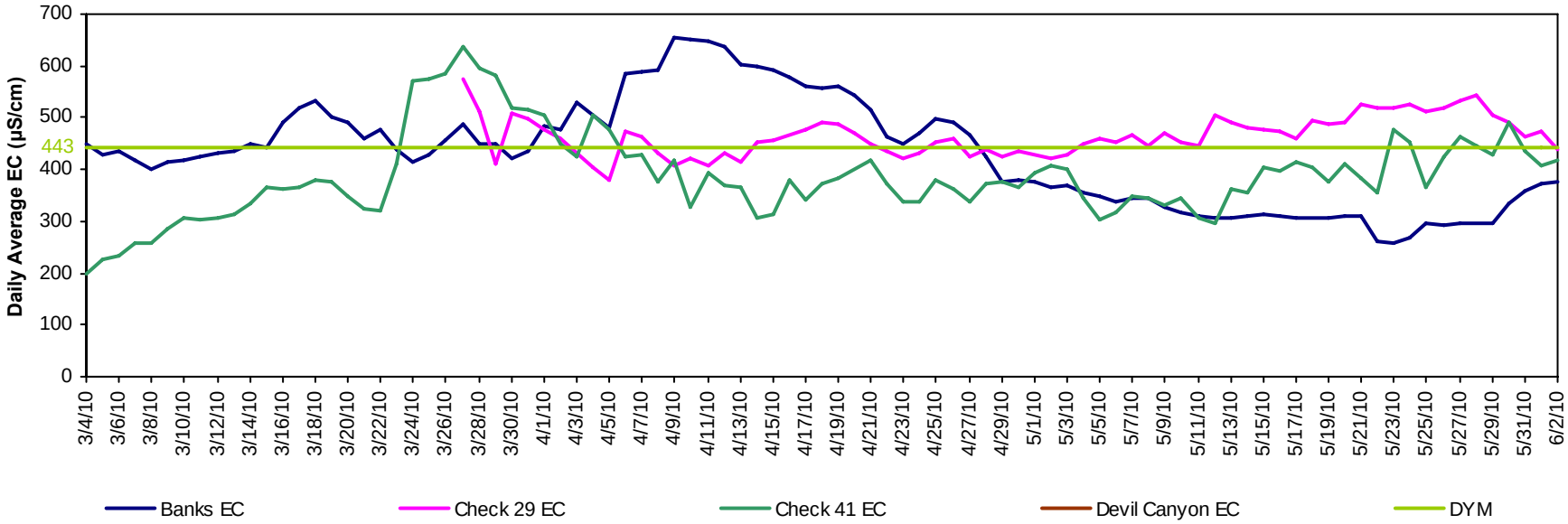
- Arvin-Edison Water Storage District = 3,687 AF
- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 2,501 AF
- Kern County Water Agency (who operate the Cross Valley Canal) = 6,162 AF
- Semitropic (2&3) Water Storage District = 46 AF
- Wheeler Ridge Maricopa Water Storage District = 0 AF

As of June 1, 2010, no data was available for Devil Canyon due to malfunctioning instruments.

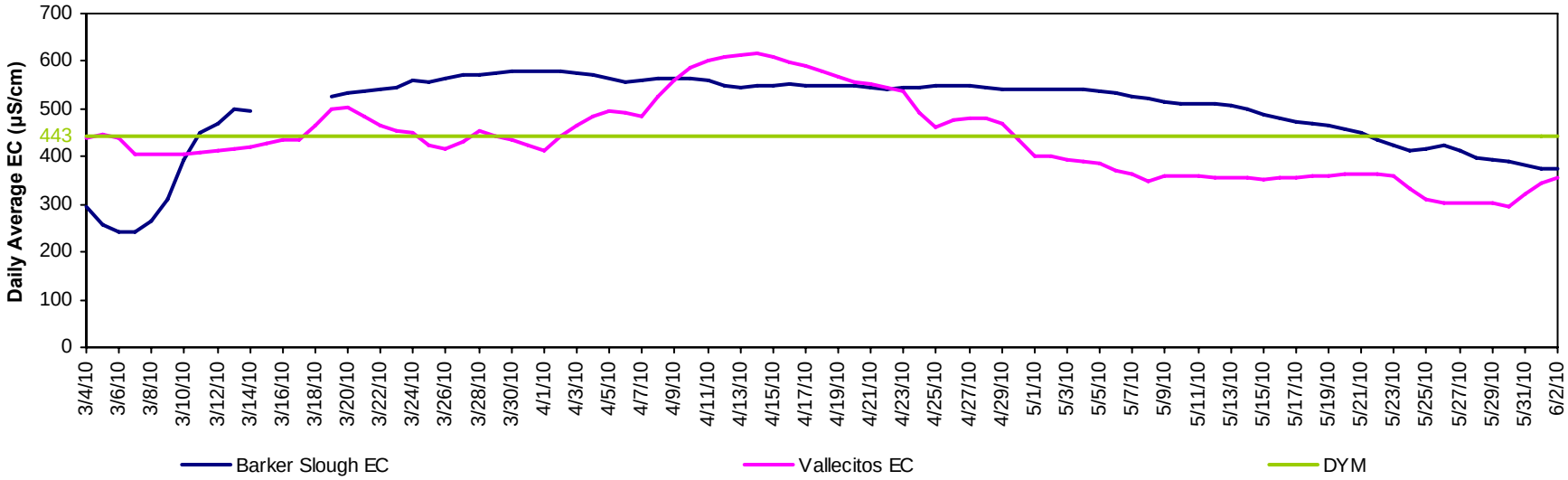
The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213, or Austine Eke @ 916-653-7227. To view WQ data from the automated stations along the SWP, visit: http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm, and click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

To view the Edmonston's daily AF pumping data, visit: www.water.ca.gov. Click on the "State Water Project" tab, and click on the "Operations Control" link. Look under the "Project-Wide Operations" header for the "Dispatcher's Daily Water Report."

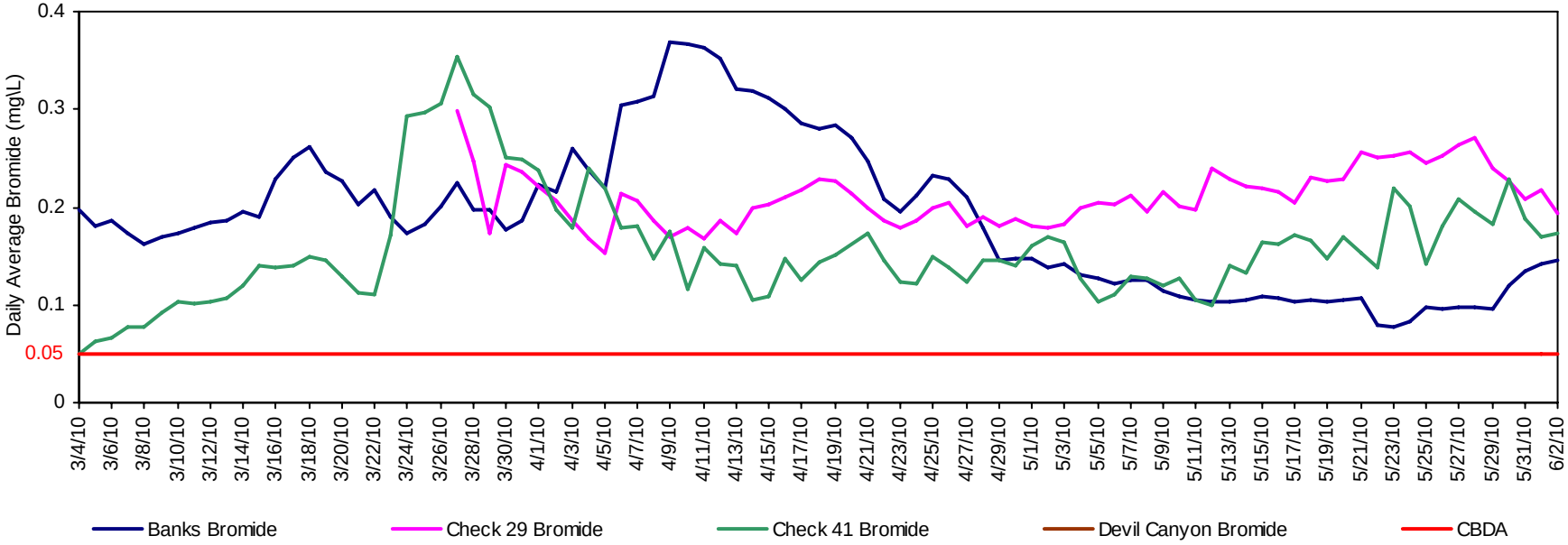
California Aqueduct - Electrical Conductivity



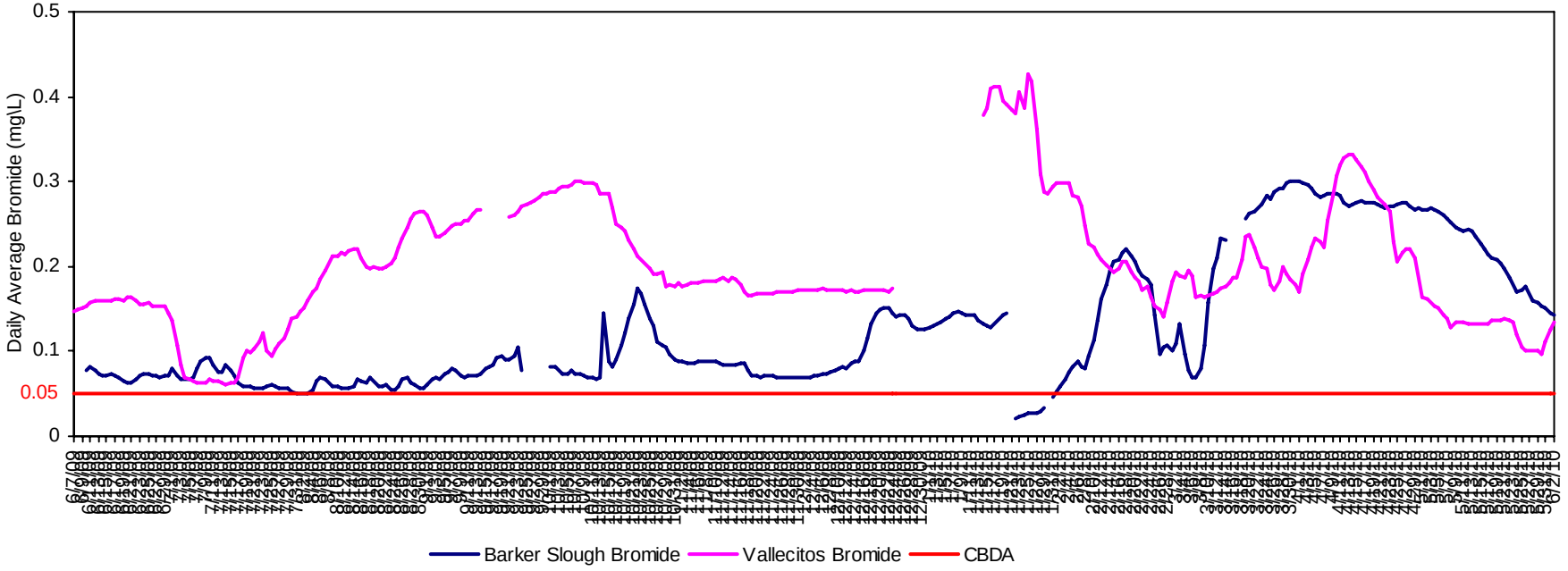
North and South Bay Aqueduct - Electrical Conductivity



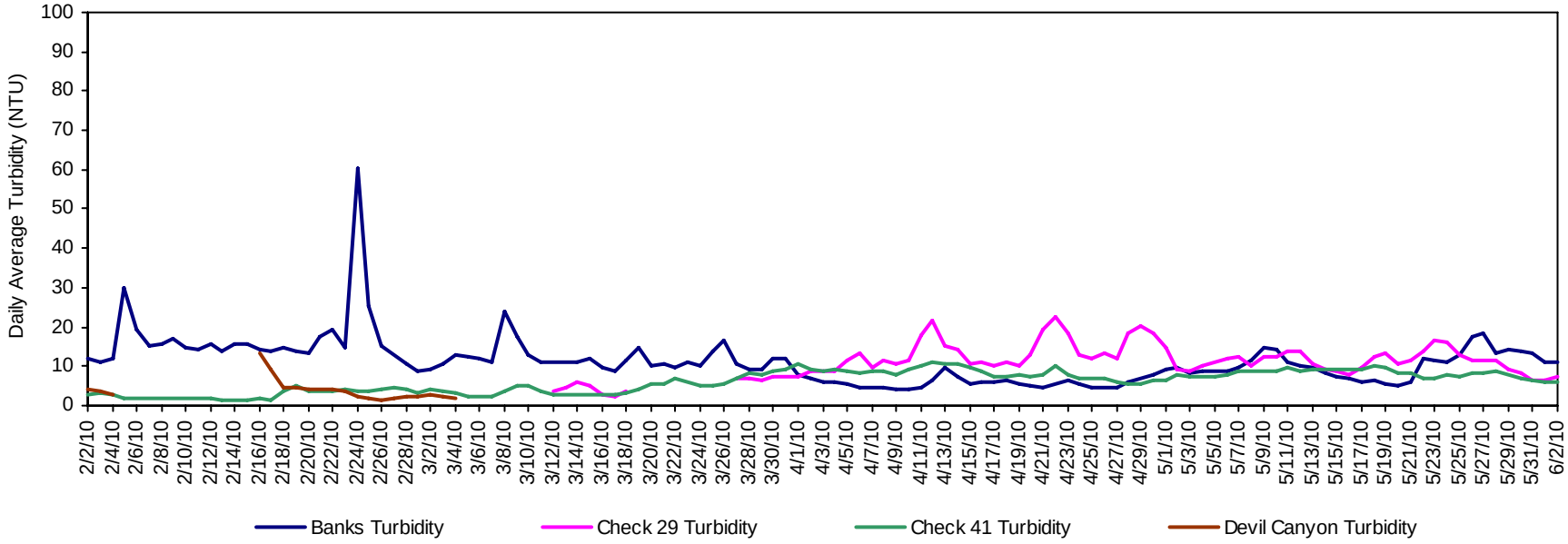
California Aqueduct - Calculated Bromide



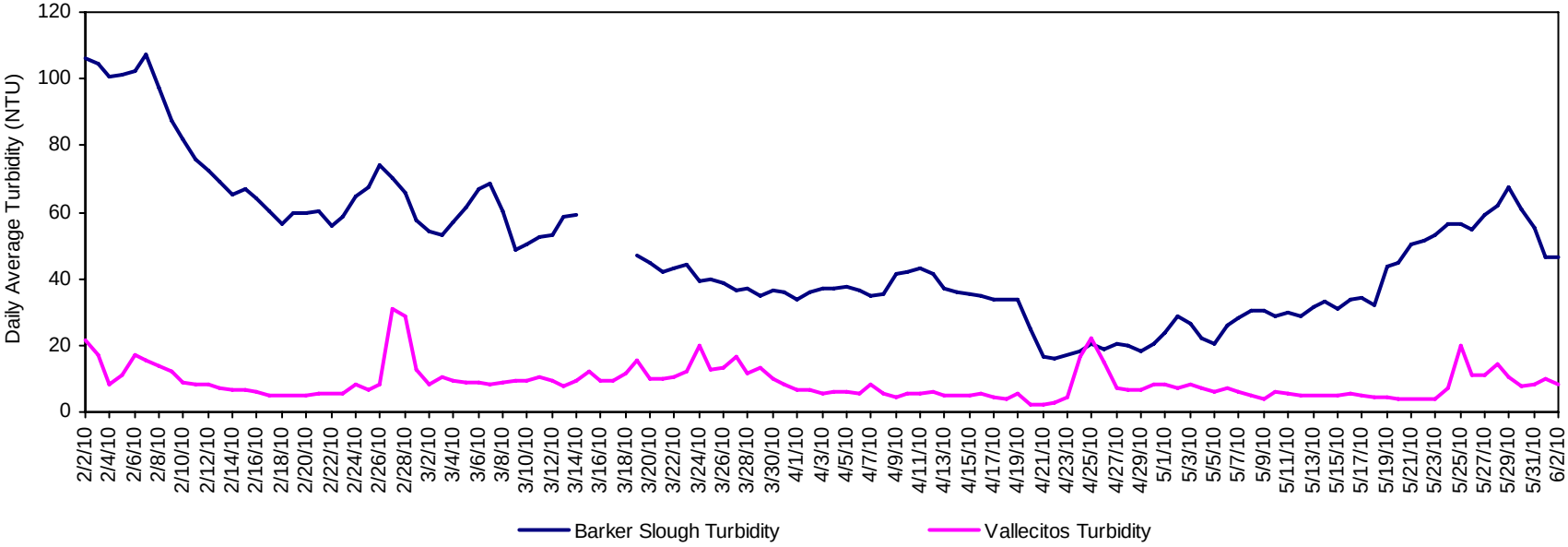
North and South Bay Aqueduct - Calculated Bromide



California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct
Calculated Dissolved Organic Carbon